

# Massachusetts Bay bacteria counts, 2019

Surveys are conducted monthly to measure fecal coliform and *Enterococcus* in Massachusetts Bay in the area of the MWRA outfall. Additional monitoring is carried out following heavy rains or other events that may affect wastewater treatment and potentially have adverse effects in Massachusetts Bay.

Displayed are *Enterococcus* and fecal coliform counts.

The limit for shellfishing in unrestricted areas is 14 col/100 mL for fecal coliform.

There are no shellfishing limits established for *Enterococcus*, but EPA's swimming standard is a geometric mean of 35 colonies/100 mL, and a single sample limit of 104 colonies/100 mL.

"S" following the station id means sample was collected at surface;

"P" means sample was collected below the pycnocline, the division between the surface warm and/or fresh water layer and the bottom cold and/or salty water layer (collected only if a pycnocline is

Date	Station	Fecal coliform	<i>Enterococcus</i>
Jan/18/2019 08:26 AM	F25S	1	<10
Jan/18/2019 08:43 AM	F14S	3	10
Jan/18/2019 08:55 AM	N09S	<1	<10
Jan/18/2019 09:19 AM	F13S	<1	<10
Jan/18/2019 09:46 AM	N07S	<1	<10
Jan/18/2019 10:02 AM	N16S	<1	<10
Jan/18/2019 10:18 AM	N21S	1	10
Jan/18/2019 10:40 AM	N04S	<1	<10
Jan/18/2019 10:49 AM	N20S	1	<10
Jan/18/2019 11:02 AM	N02S	<1	<10
Jan/18/2019 11:17 AM	F18S	12	<10
Jan/18/2019 11:38 AM	F24S	<1	<10
Feb/04/2019 08:17 AM	F25S	<1	<10
Feb/04/2019 08:34 AM	F14S	<1	<10
Feb/04/2019 08:47 AM	N09S	<1	<10
Feb/04/2019 09:11 AM	F13S	<1	<10
Feb/04/2019 09:36 AM	N07S	<1	<10
Feb/04/2019 09:52 AM	N16S	<1	<10
Feb/04/2019 10:08 AM	N21S	<1	<10
Feb/04/2019 10:28 AM	N04S	<1	<10
Feb/04/2019 10:37 AM	N20S	<1	<10
Feb/04/2019 10:50 AM	N02S	2	<10
Feb/04/2019 11:06 AM	F18S	5	<10
Feb/04/2019 11:24 AM	F24S	<1	<10
Mar/01/2019 08:47 AM	F25S	1	<10
Mar/01/2019 09:03 AM	F14S	<1	<10
Mar/01/2019 09:16 AM	N09S	<1	10
Mar/01/2019 09:40 AM	F13S	<1	<10
Mar/01/2019 10:06 AM	N07S	<1	<10
Mar/01/2019 10:22 AM	N16S	<1	<10
Mar/01/2019 10:38 AM	N04S	<1	<10
Mar/01/2019 10:59 AM	N21S	<1	10

Date	Station	Fecal coliform	<i>Enterococcus</i>
Mar/01/2019 11:08 AM	N20S	<1	<10
Mar/01/2019 11:23 AM	N02S	<1	<10
Mar/01/2019 11:38 AM	F18S	<1	<10
Mar/01/2019 11:58 AM	F24S	<1	<10
Apr/02/2019 08:12 AM	F25S	<1	<10
Apr/02/2019 08:29 AM	F14S	<1	<10
Apr/02/2019 08:41 AM	N09S	<1	<10
Apr/02/2019 09:06 AM	F13S	<1	<10
Apr/02/2019 09:32 AM	N07S	<1	<10
Apr/02/2019 09:48 AM	N16S	<1	<10
Apr/02/2019 10:04 AM	N04S	<1	<10
Apr/02/2019 10:25 AM	N21S	<1	<10
Apr/02/2019 10:33 AM	N20S	<1	<10
Apr/02/2019 10:46 AM	N02S	<1	<10
Apr/02/2019 11:00 AM	F18S	<1	<10
Apr/02/2019 11:20 AM	F24S	<1	<10
May/01/2019 08:39 AM	F25S	<1	<10
May/01/2019 08:46 AM	F25P	1	<10
May/01/2019 09:01 AM	F14S	<1	<10
May/01/2019 09:04 AM	F14P	<1	10
May/01/2019 09:17 AM	N09S	<1	<10
May/01/2019 09:20 AM	N09P	<1	<10
May/01/2019 09:43 AM	F13S	<1	<10
May/01/2019 09:46 AM	F13P	<1	<10
May/01/2019 10:23 AM	N07S	<1	<10
May/01/2019 10:27 AM	N07P	<1	<10
May/01/2019 10:43 AM	N16S	<1	<10
May/01/2019 10:46 AM	N16P	<1	<10
May/01/2019 11:00 AM	N04S	<1	<10
May/01/2019 11:02 AM	N21S	<1	10
May/01/2019 11:05 AM	N04P	<1	<10
May/01/2019 11:30 AM	N21P	<1	<10
May/01/2019 11:38 AM	N20S	<1	<10
May/01/2019 11:41 AM	N20P	<1	<10
May/01/2019 11:53 AM	N02S	<1	<10
May/01/2019 11:57 AM	N02P	<1	<10
May/01/2019 12:11 PM	F18S	<1	<10
May/01/2019 12:14 PM	F18P	1	<10
May/01/2019 12:33 PM	F24S	<1	<10
May/01/2019 12:36 PM	F24P	<1	<10
Jun/07/2019 08:27 AM	F25S	<1	<10
Jun/07/2019 08:30 AM	F25P	1	<10
Jun/07/2019 08:46 AM	F14S	<1	<10
Jun/07/2019 08:49 AM	F14P	<1	<10
Jun/07/2019 09:03 AM	N09S	<1	<10
Jun/07/2019 09:11 AM	N09P	<1	<10
Jun/07/2019 09:35 AM	F13S	<1	<10
Jun/07/2019 09:39 AM	F13P	<1	<10
Jun/07/2019 10:07 AM	N07S	<1	<10

Date	Station	Fecal coliform	<i>Enterococcus</i>
Jun/07/2019 10:14 AM	N07P	<1	<10
Jun/07/2019 10:28 AM	N16S	<1	<10
Jun/07/2019 10:32 AM	N16P	<1	<10
Jun/07/2019 10:49 AM	N04S	<1	<10
Jun/07/2019 10:59 AM	N04P	<1	<10
Jun/07/2019 11:17 AM	N21S	<1	<10
Jun/07/2019 11:28 AM	N21P	<1	<10
Jun/07/2019 11:35 AM	N20S	<1	<10
Jun/07/2019 11:47 AM	N20P	<1	<10
Jun/07/2019 11:59 AM	N02S	<1	<10
Jun/07/2019 12:02 PM	N02P	<1	<10
Jun/07/2019 12:15 PM	F18S	<1	<10
Jun/07/2019 12:20 PM	F18P	<1	<10
Jun/07/2019 12:39 PM	F24S	<1	<10
Jun/07/2019 12:42 PM	F24P	<1	<10
Jul/02/2019 08:45 AM	F25S	2	<10
Jul/02/2019 08:49 AM	F25P	<1	<10
Jul/02/2019 09:05 AM	F14S	<1	<10
Jul/02/2019 09:09 AM	F14P	<1	<10
Jul/02/2019 09:22 AM	N09S	<1	10
Jul/02/2019 09:26 AM	N09P	<1	<10
Jul/02/2019 09:50 AM	F13S	<1	<10
Jul/02/2019 09:53 AM	F13P	<1	<10
Jul/02/2019 10:17 AM	N07S	<1	<10
Jul/02/2019 10:21 AM	N07P	<1	<10
Jul/02/2019 10:35 AM	N16S	<1	<10
Jul/02/2019 10:39 AM	N16P	<1	<10
Jul/02/2019 10:53 AM	N04S	<1	<10
Jul/02/2019 11:00 AM	N04P	<1	<10
Jul/02/2019 11:25 AM	N21S	<1	<10
Jul/02/2019 11:34 AM	N21P	<1	<10
Jul/02/2019 11:41 AM	N20S	<1	<10
Jul/02/2019 11:45 AM	N20P	<1	<10
Jul/02/2019 11:59 AM	N02S	<1	<10
Jul/02/2019 12:03 PM	N02P	<1	<10
Jul/02/2019 12:19 PM	F18S	<1	<10
Jul/02/2019 12:22 PM	F18P	<1	<10
Jul/02/2019 12:39 PM	F24S	<1	<10
Jul/02/2019 12:43 PM	F24P	<1	<10
Aug/02/2019 08:43 AM	F25P	<1	<10
Aug/02/2019 08:49 AM	F25S	<1	<10
Aug/02/2019 09:05 AM	F14P	<1	10
Aug/02/2019 09:07 AM	F14S	<1	<10
Aug/02/2019 09:18 AM	N09P	<1	10
Aug/02/2019 09:21 AM	N09S	<1	<10
Aug/02/2019 09:43 AM	F13P	<1	<10
Aug/02/2019 09:46 AM	F13S	<1	<10
Aug/02/2019 10:10 AM	N07P	<1	<10
Aug/02/2019 10:14 AM	N07S	<1	<10

Date	Station	Fecal coliform	<i>Enterococcus</i>
Aug/02/2019 10:29 AM	N16P	<1	<10
Aug/02/2019 10:33 AM	N16S	<1	<10
Aug/02/2019 10:50 AM	N04P	<1	<10
Aug/02/2019 10:53 AM	N04S	<1	<10
Aug/02/2019 11:11 AM	N21P	<1	<10
Aug/02/2019 11:13 AM	N21S	<1	<10
Aug/02/2019 11:20 AM	N20P	1	<10
Aug/02/2019 11:23 AM	N20S	<1	<10
Aug/02/2019 11:35 AM	N02P	<1	<10
Aug/02/2019 11:41 AM	N02S	<1	<10
Aug/02/2019 11:55 AM	F18P	<1	10
Aug/02/2019 11:58 AM	F18S	<1	<10
Aug/02/2019 12:18 PM	F24P	<1	<10
Aug/02/2019 12:22 PM	F24S	<1	<10
Sep/09/2019 08:37 AM	F25S	<1	<10
Sep/09/2019 08:42 AM	F25P	<1	<10
Sep/09/2019 08:57 AM	F14S	<1	<10
Sep/09/2019 09:02 AM	F14P	<1	<10
Sep/09/2019 09:14 AM	N09S	<1	<10
Sep/09/2019 09:21 AM	N09P	1	<10
Sep/09/2019 09:44 AM	F13S	<1	<10
Sep/09/2019 09:52 AM	F13P	1	<10
Sep/09/2019 10:16 AM	N07S	<1	<10
Sep/09/2019 10:20 AM	N07P	<1	<10
Sep/09/2019 10:35 AM	N16S	<1	<10
Sep/09/2019 10:41 AM	N16P	<1	<10
Sep/09/2019 10:57 AM	N04S	<1	<10
Sep/09/2019 11:07 AM	N04P	<1	<10
Sep/09/2019 11:25 AM	N21S	<1	<10
Sep/09/2019 11:29 AM	N21P	<1	<10
Sep/09/2019 11:41 AM	N20S	<1	<10
Sep/09/2019 11:47 AM	N20P	<1	<10
Sep/09/2019 12:02 PM	N02S	<1	<10
Sep/09/2019 12:12 PM	N02P	1	<10
Sep/09/2019 12:26 PM	F18S	<1	<10
Sep/09/2019 12:36 PM	F18P	3	<10
Sep/09/2019 12:54 PM	F24S	<1	<10
Sep/09/2019 12:59 PM	F24P	1	<10
Oct/08/2019 08:37 AM	F25S	<1	<10
Oct/08/2019 08:41 AM	F25P	<1	<10
Oct/08/2019 08:57 AM	F14S	<1	<10
Oct/08/2019 08:59 AM	F14P	<1	<10
Oct/08/2019 09:12 AM	N09S	<1	<10
Oct/08/2019 09:15 AM	N09P	<1	<10
Oct/08/2019 09:39 AM	F13S	<1	<10
Oct/08/2019 09:46 AM	F13P	<1	<10
Oct/08/2019 10:12 AM	N07S	<1	<10
Oct/08/2019 10:15 AM	N07P	<1	<10
Oct/08/2019 10:33 AM	N16S	<1	<10

Date	Station	Fecal coliform	<i>Enterococcus</i>
Oct/08/2019 10:36 AM	N16P	<1	10
Oct/08/2019 10:55 AM	N04S	<1	<10
Oct/08/2019 10:58 AM	N04P	<1	<10
Oct/08/2019 11:17 AM	N21S	<1	<10
Oct/08/2019 11:20 AM	N21P	<1	<10
Oct/08/2019 11:28 AM	N20S	<1	<10
Oct/08/2019 11:32 AM	N20P	<1	<10
Oct/08/2019 11:46 AM	N02S	<1	<10
Oct/08/2019 11:49 AM	N02P	<1	<10
Oct/08/2019 12:05 PM	F18S	<1	<10
Oct/08/2019 12:08 PM	F18P	<1	122
Oct/08/2019 12:27 PM	F24S	<1	<10
Oct/08/2019 12:30 PM	F24P	<1	<10
Nov/04/2019 08:40 AM	F25S	1	<10
Nov/04/2019 08:57 AM	F14S	<1	<10
Nov/04/2019 09:11 AM	N09S	<1	30
Nov/04/2019 09:36 AM	F13S	<1	<10
Nov/04/2019 10:03 AM	N07S	<1	<10
Nov/04/2019 10:20 AM	N16S	<1	<10
Nov/04/2019 10:35 AM	N04S	<1	<10
Nov/04/2019 10:56 AM	N21S	<1	<10
Nov/04/2019 11:04 AM	N20S	<1	<10
Nov/04/2019 11:18 AM	N02S	<1	<10
Nov/04/2019 11:35 AM	F18S	<1	<10
Nov/04/2019 11:54 AM	F24S	1	<10
Dec/23/2019 07:47 AM	F25S	<1	<10
Dec/23/2019 08:03 AM	F14S	<1	<10
Dec/23/2019 08:18 AM	N09S	<1	<10
Dec/23/2019 08:41 AM	F13S	<1	<10
Dec/23/2019 09:08 AM	N07S	<1	<10
Dec/23/2019 09:23 AM	N16S	<1	<10
Dec/23/2019 09:35 AM	N04S	<1	<10